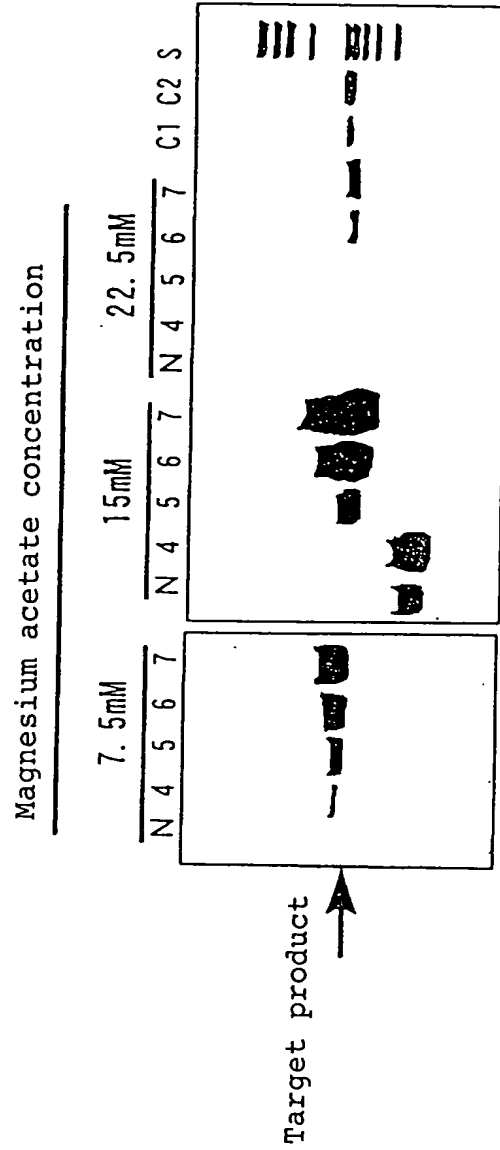


# FIG. 1



# FIG. 2



N: Negative

Numerals logarithmically denote the initial copy number (/test) of the standard DNA

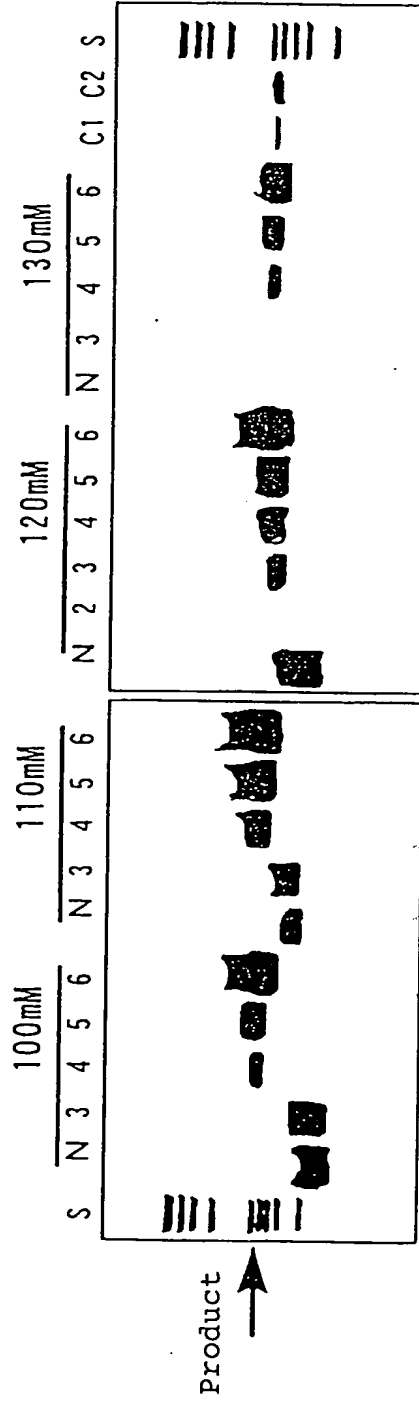
C1:  $10^{10}$  copy/1 lane standard DNA

C2:  $5 \times 10^{11}$  copy/1 lane standard DNA

S:  $\phi$ X174/HaeIII

# F I G. 3

Potassium acetate concentration



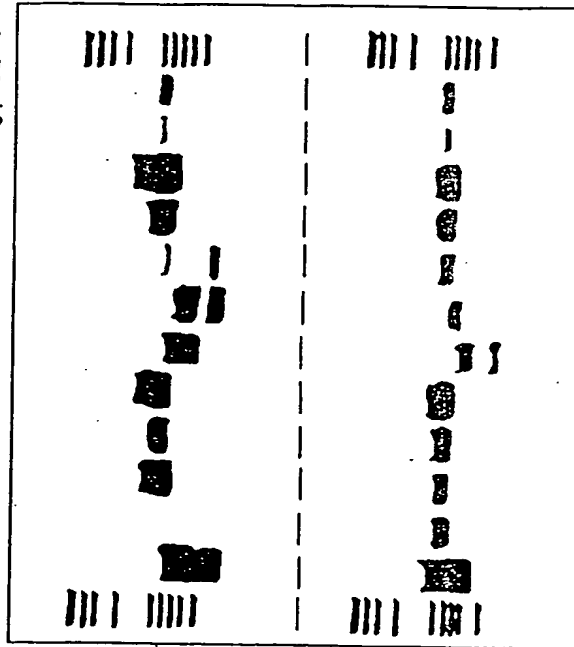
N: Negative  
 Numerals logarithmically denote the initial  
 copy number (/test) of the standard DNA  
 C1:  $10^{10}$  copy/1 lane standard DNA  
 C2:  $5 \times 10^{11}$  copy/1 lane standard DNA  
 S:  $\phi$ X174/HaeIII

# FIG. 4

Final sorbitol concentration

15% 11.3%

S N 3 4 5 6 N 3 4 5 6 C1 C2 S



Product

Product

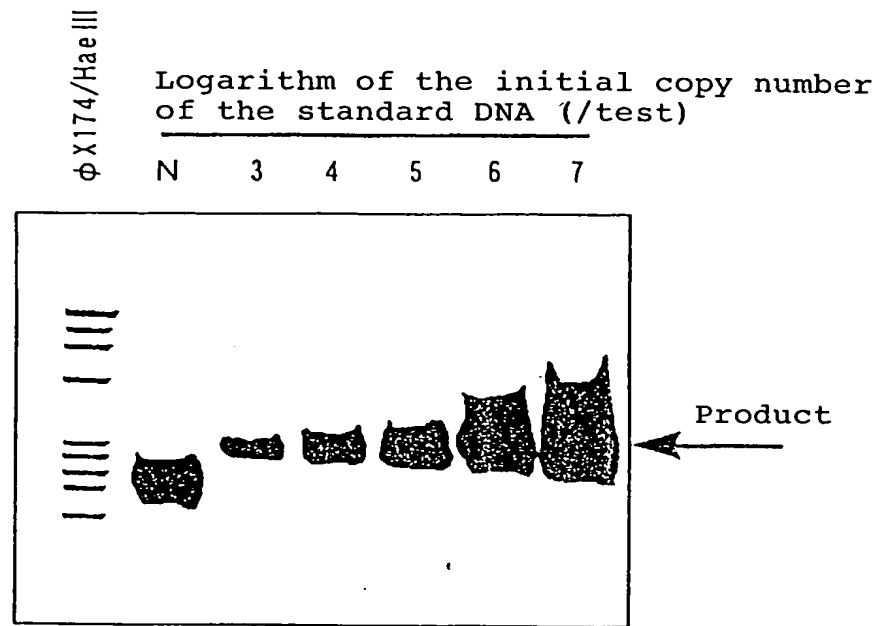
N: Negative  
 Numerals logarithmically denote the initial  
 copy number (/test) of the standard DNA  
 C1:  $10^{10}$  copy/1 lane standard DNA  
 C2:  $5 \times 10^{11}$  copy/1 lane standard DNA  
 S:  $\phi$ X174/HaeIII

9%

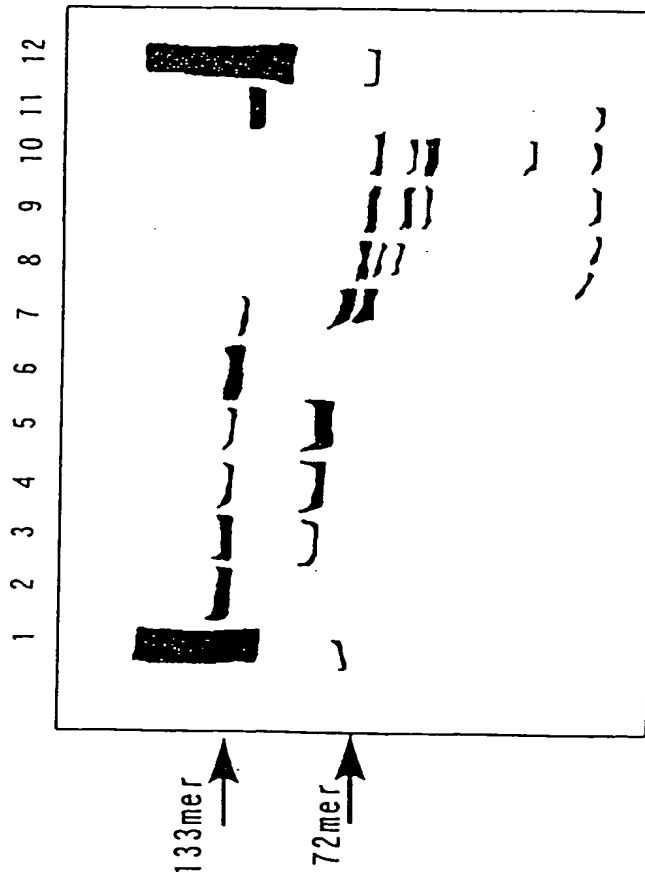
7.5%

Final Sorbitol concentration

# FIG. 5

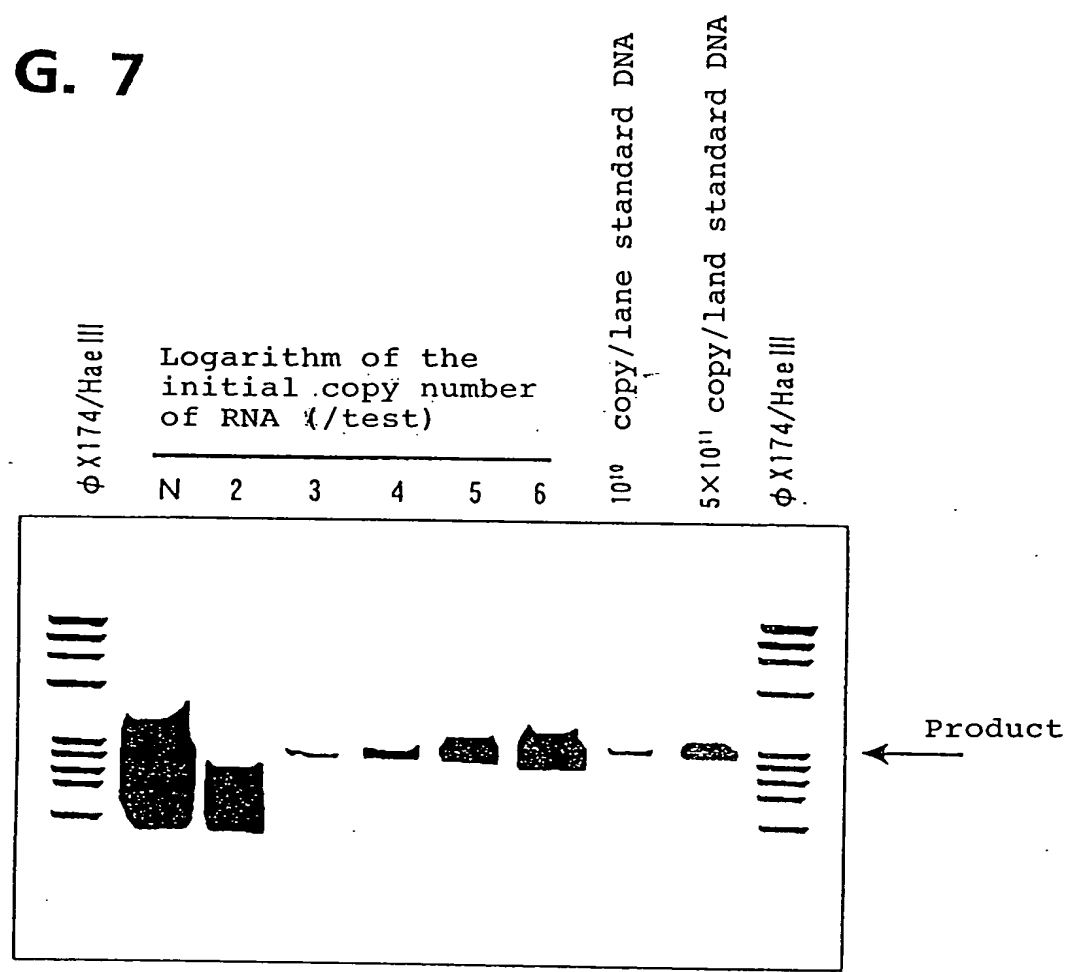


# FIG. 6



- 1, 12. Thermally denatured x174/HaeIII
2. Tris-acetate buffer  $7 \times 10^{-6}$  U/ $\mu$ l RNaseH
3. Tris-acetate buffer  $7 \times 10^{-5}$  U/ $\mu$ l RNaseH
4. Tris-acetate buffer  $7 \times 10^{-4}$  U/ $\mu$ l RNaseH
5. Tris-acetate buffer  $7 \times 10^{-3}$  U/ $\mu$ l RNaseH
6. Tris-acetate buffer RNaseH without addition of RNaseH
7. Tris-HCl buffer  $10^{-5}$  U/ $\mu$ l RNaseH
8. Tris-HCl buffer  $10^{-4}$  U/ $\mu$ l RNaseH
9. Tris-HCl buffer  $10^{-3}$  U/ $\mu$ l RNaseH
10. Tris-HCl buffer  $10^{-2}$  U/ $\mu$ l RNaseH
11. Tris-HCl buffer RNaseH without addition of RNaseH

**F I G. 7**



# FIG. 8

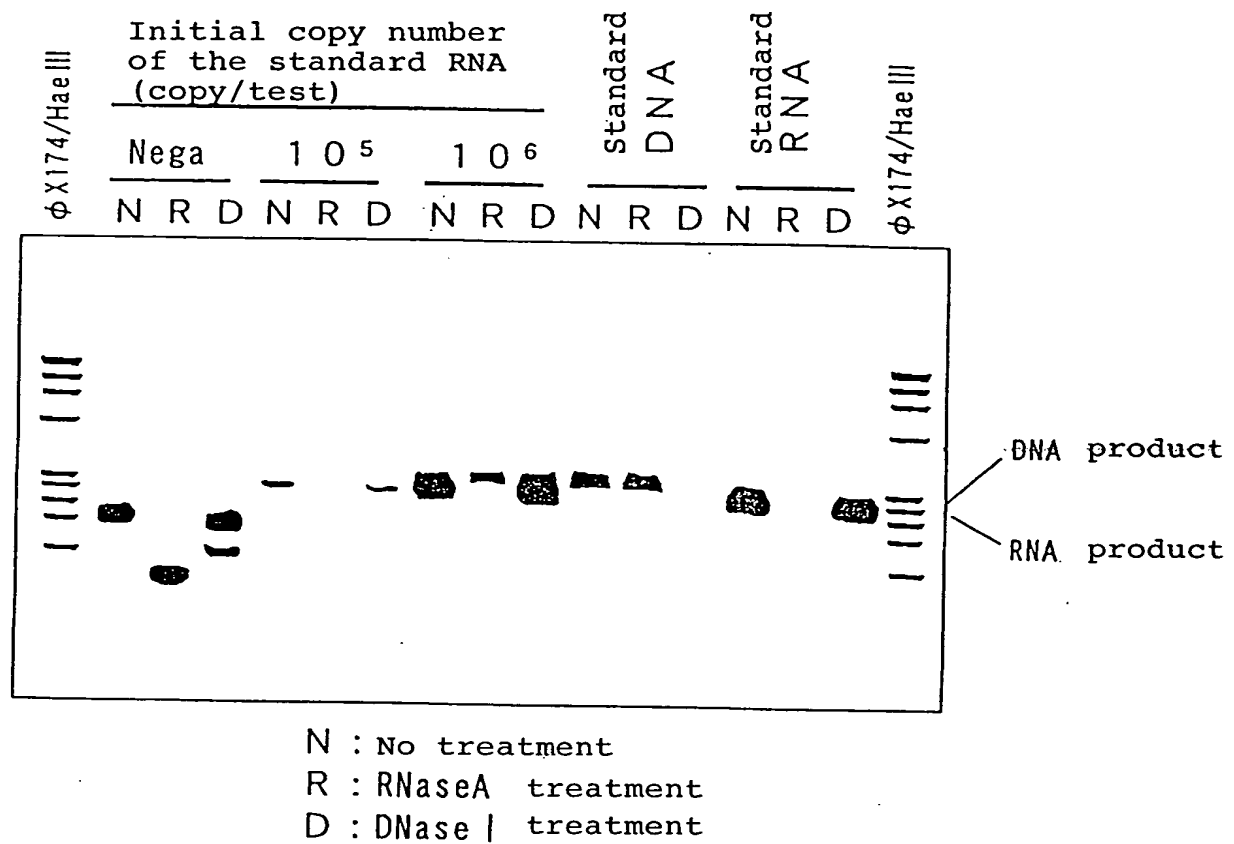
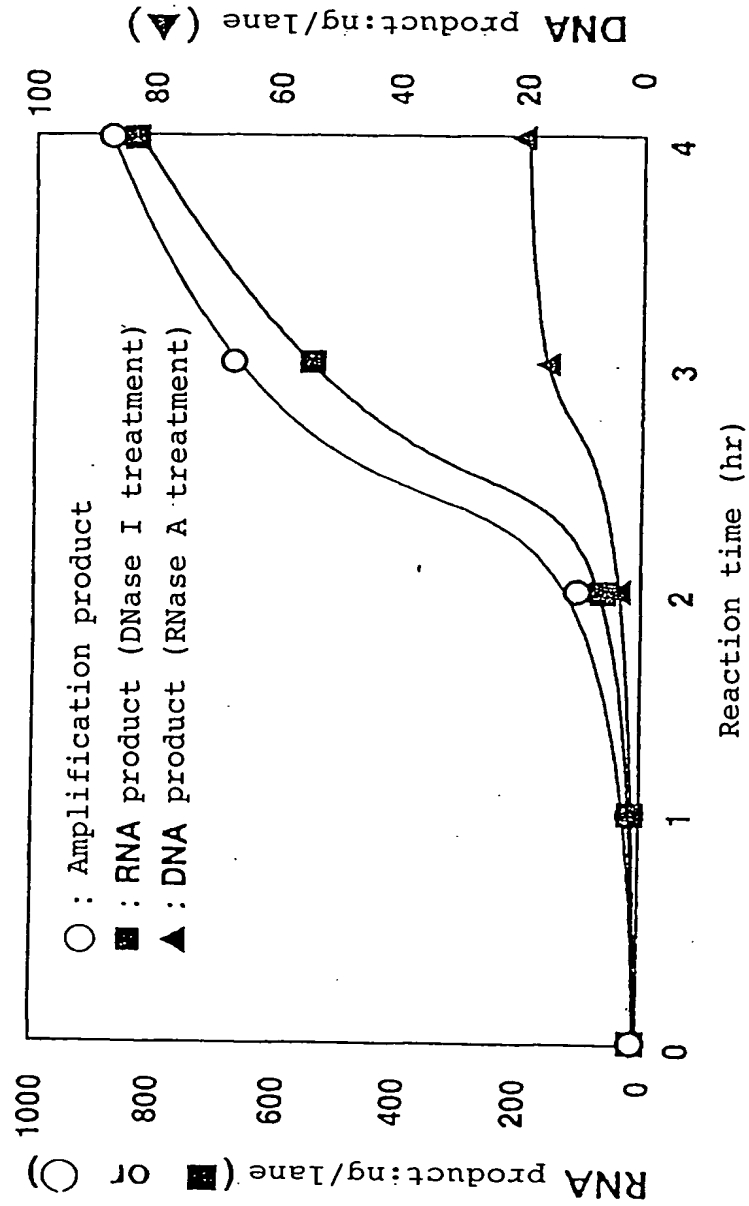
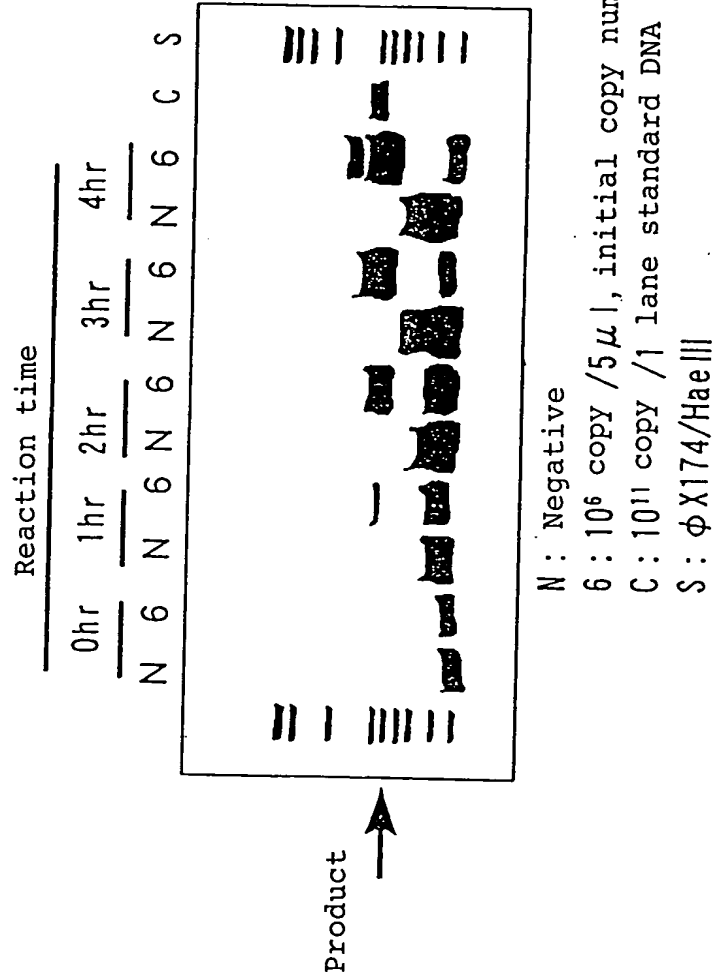




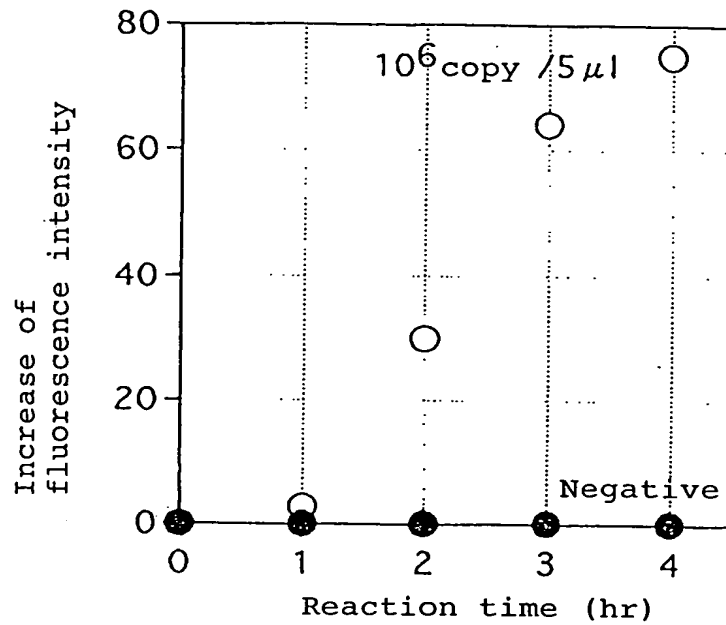
FIG. 9



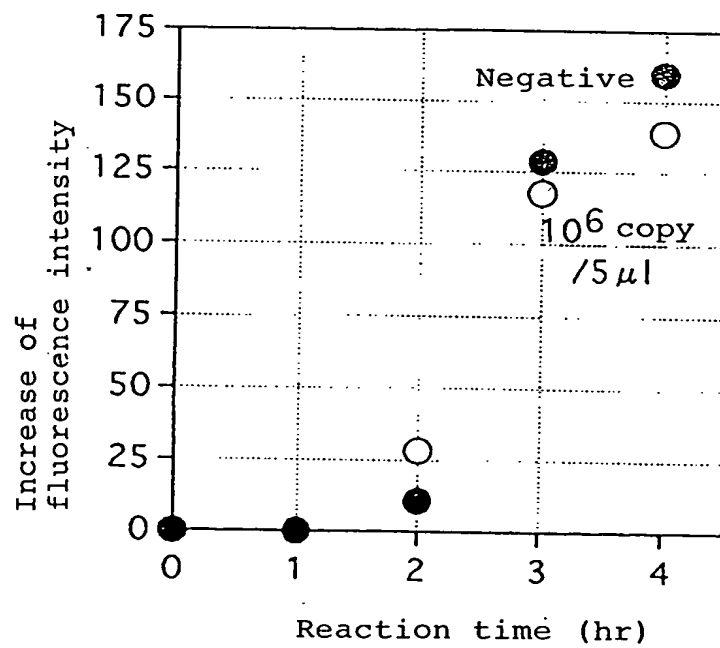
# F I G. 10



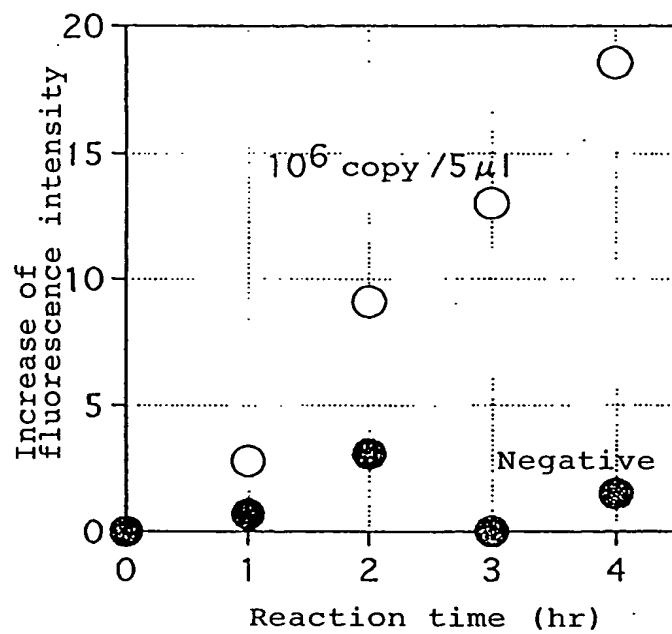
**F I G. 11**



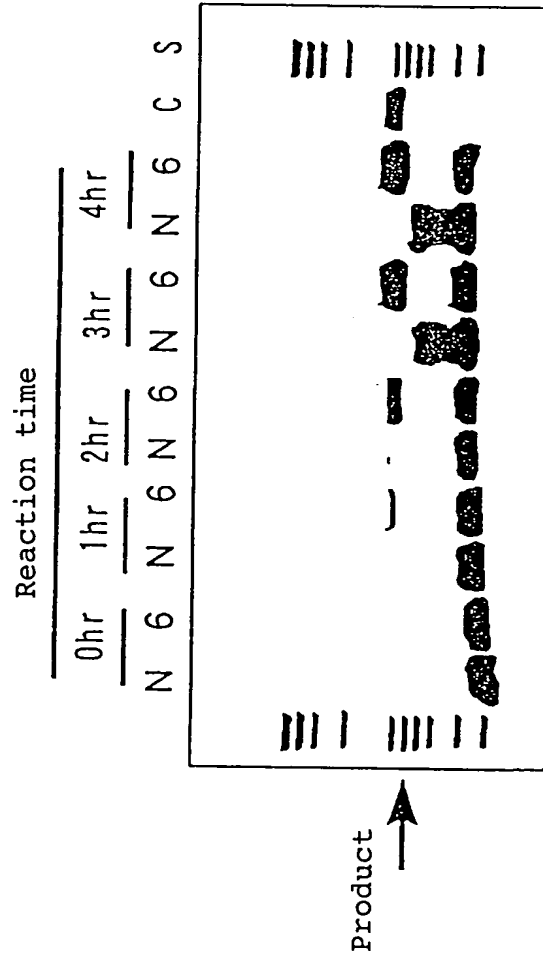
**F I G. 12**



**F I G. 13**

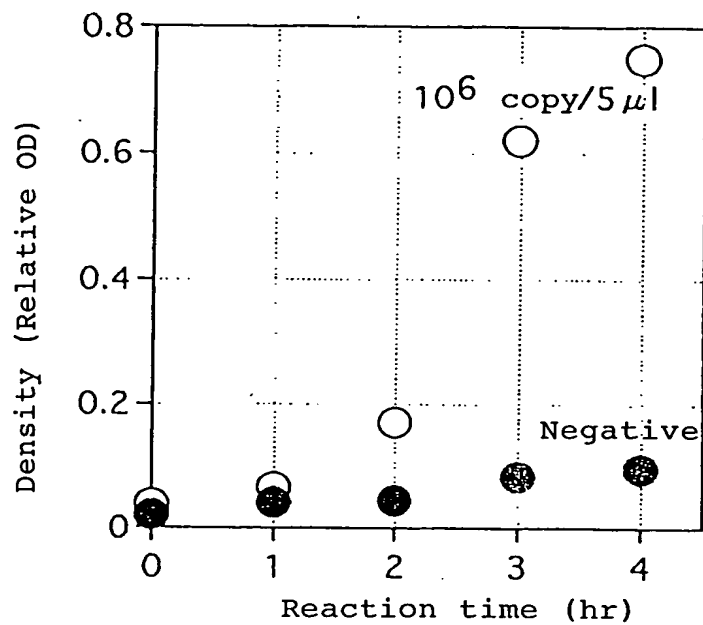


# F I G. 14

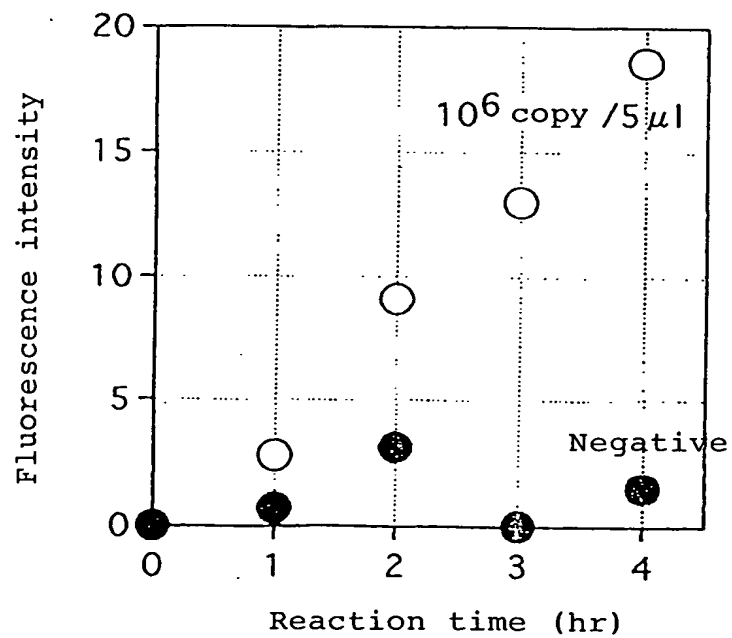


N : Negative  
 6 :  $10^6$  copy /  $5\mu$ l, Initial copy number of standard RNA  
 C :  $10^{11}$  copy / 1 Standard DNA  
 S :  $\phi$ X174/HaeIII

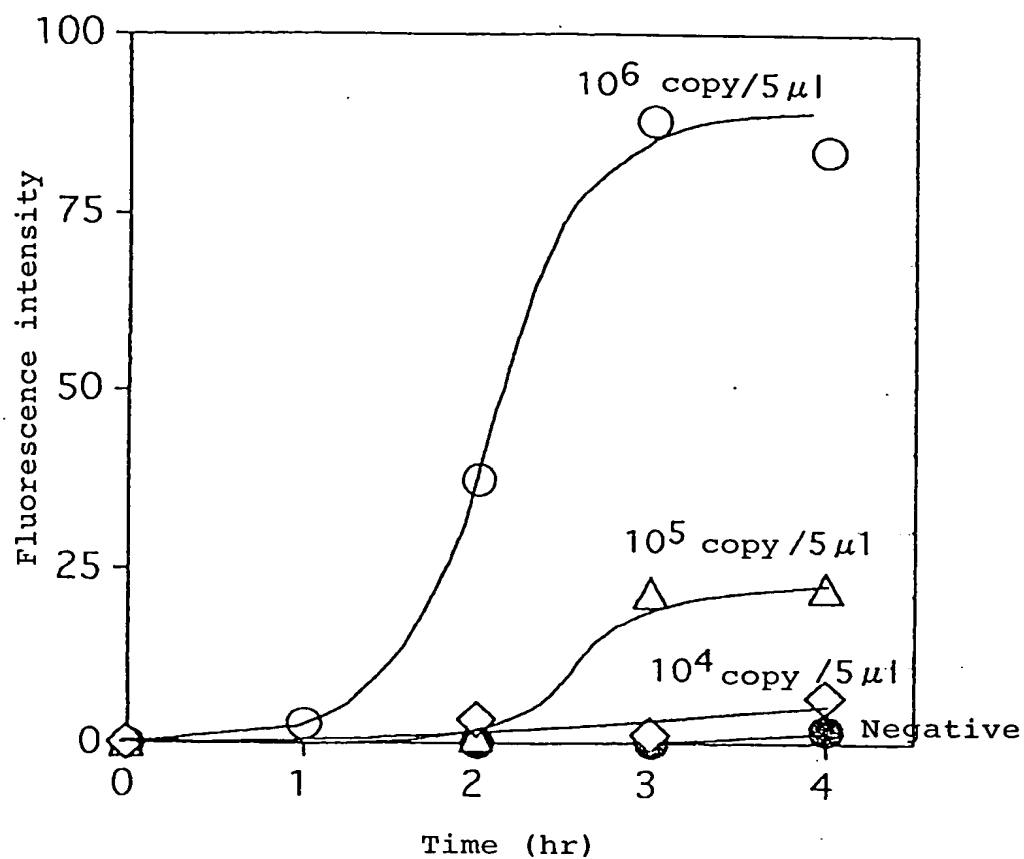
**F I G. 15**



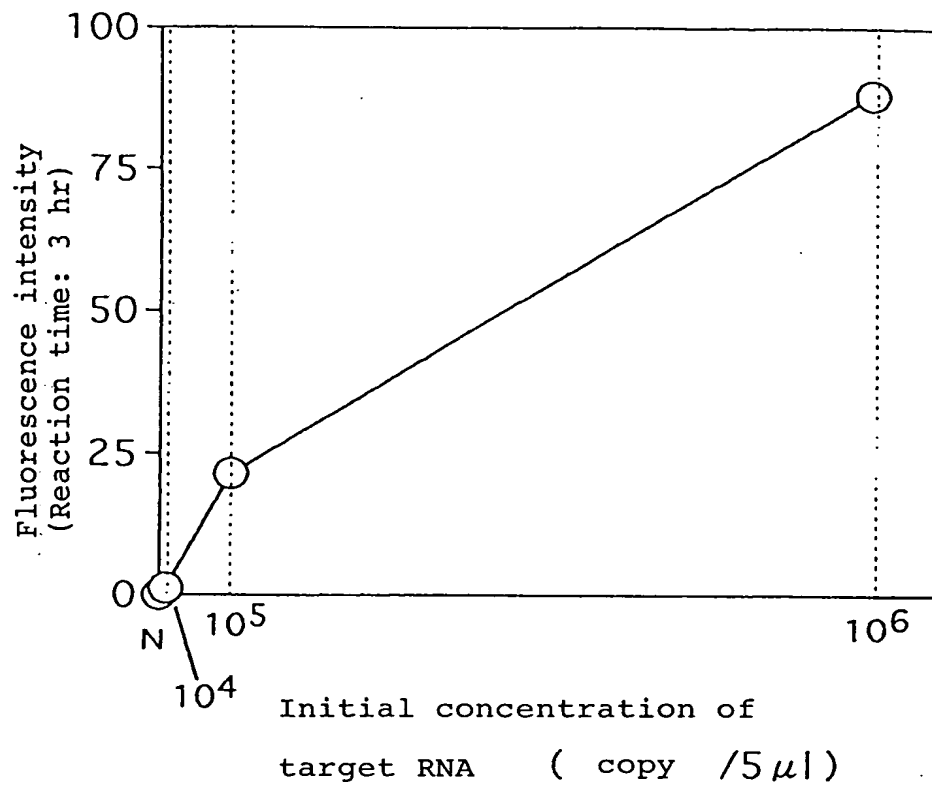
**F I G. 16**



**F I G. 17**



**F I G. 18**



**F I G. 19**

